

Daniel Eduardo Prince, MD, MPH

Paley Advanced Limb Lengthening Institute

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EDUCATION

Memorial Sloan Kettering Cancer Center, New York, NY, USA

Orthopaedic Oncology Fellowship

2010 – 2011

Attending privileges, Board Eligible, Licensed in New York

Chairman: John H. Healey, MD

Fellowship Director: Carrol Morris, MD

Rubin Institute for Advanced Orthopaedics, Sinai Hospital, Baltimore, MD, USA

Limb Deformity and Reconstruction Fellowship

2009-2010

Attending privileges, Board Eligible, Licensed in Maryland

Fellowship Director: John Herzenberg, MD

NYPH, Columbia University Medical Center, New York, NY, USA

Orthopaedic Surgery Internship & Residency

2004-2009

Chairman: Louis U. Bigliani, MD

Residency Director: William N. Levine, MD

Yale University School of Medicine, New Haven, CT, USA

Doctor of Medicine; Master of Public Health

1999-2004

Public Health Concentration: American Public Policy

University of Notre Dame, Notre Dame, IN, USA

Bachelor of Science

1995-1999

Major: Biology, Cum Laude

Concentration: Molecular Biology and Organic Chemistry

RESEARCH FOCUS

My clinical research focuses on both limb deformity, orthopaedic oncology and the combination of the two. These two areas of subspecialty offer a unique pairing and combination for the treatment of complex, oncologic, and post-traumatic orthopaedic patients. Understanding the techniques of bone transport, deformity correction, and limb lengthening, I apply these techniques to patients that require large bony and soft tissue resections and reconstructions. My clinical research is in developing and proving the effectiveness of the newest techniques in reconstruction and limb salvage, especially after resection of tumors and cancer. These surgical techniques and treatments when utilized for these complex diseases and conditions strive to obtain the goals of excellent function of the limb, long term survival, and high patient satisfaction.

PRESENTATIONS

- 2011, *Good Samaritan Medical Center Grand Rounds*. "Orthopaedic Surgery in Metastatic Bone Disease" DE Prince. (West Palm Beach, FL)
- 2011, *New York Orthopaedic Hospital Bi-Annual Meeting*. "The Use of Ilizarov Methods in Orthopaedic Oncology Reconstruction" DE Prince. (New York, NY)
- 2010, *Limb Lengthening and Reconstruction Society Annual Meeting*. "First Femoral Lengthening for Congenital Femoral Deficiency" DE Prince, SC Standard. (New York, NY)
- 2010, *Maryland Orthopaedic Association Annual Meeting*, "First Metatarsal Instability Associated with Transfer Metatarsalgia" DE Prince, JK Greisberg. (Baltimore, MD)
- 2009, *New York Orthopaedic Hospital Residency Graduation* "The Effect of Metal Type and Rod Diameter in Posterior Spinal Fusion in Adolescent Idiopathic Scoliosis." DE Prince, H Matsumoto, J Gomez, MG Vitale, D Roye. (New York, NY)
- 2009, *New York Orthopaedic Hospital Semi Annual Alumni Meeting* "My Experience as a Washington Health

Policy Fellow." DE Prince. (New York, NY)

- 2007, *Orthopaedic Research and Education Foundation, New York Metropolitan Area Resident Research Competition* "The Role of Nitric Oxide in Apoptotic Chondrocytes after High Energy Trauma." DE Prince, AA Chambers, JK Greisberg, FY Lee. (New York, NY)
- 2007, *New York Academy of Sciences Skeletal Biology Meeting*, "Nuclear Factor of Activated T Cell (NFATc1) Mediates Pro-inflammatory Gene Expression in Response to Mechanotransduction" AB Aydemir, S Lee, DW Kim, T Gardner, DE Prince, JM Ahn, FY Lee. (New York, NY)
- 2007, *New York Orthopaedic Hospital Grand Rounds*, "Scaphoid Fractures: Diagnosis and Treatment." DE Prince, ST Cho, CB Lipton, N Shrivastava. Columbia University (New York, NY)
- 2006, *New York Orthopaedic Hospital Grand Rounds*, "Developmental Dysplasia of the Hip, From Birth to Four Years." DE Prince, E Cadet, E Gordon. Columbia University (New York, NY)
- 2005, *New York Orthopaedic Hospital Grand Rounds*, "Osteblastoma: Current Perspectives and Treatment." DE Prince, Columbia University (New York, NY)
- 2003, *American Public Health Association, National Conference* "Documenting Structural Inequalities in New Haven, Connecticut", Selected Roundtable Discussant and Poster Presenter (Anaheim, CA)

PUBLICATIONS

- Prince DE, Matsumoto H, Gomez J, Vitale MG, Roye D. "The Effect of Rod Diameter in Posterior Spinal Fusion in Adolescent Idiopathic Scoliosis." (Manuscript under review)
- Prince DE, Greisberg JK, Chambers AA, Lee FY. "The Role of Nitric Oxide in Apoptotic Chondrocytes after High Energy Trauma." (Manuscript under review)
- Prince DE, Mehta S, Flint J, Genaurio J, Ranawat A. "A Proposal for a National Orthopaedic Resident Organization." (Manuscript under review)
- Greisberg JK, Prince DE, Sperber L. "Mobility of the first ray in various foot disorders." *FAI* 2011 epub head of print.
- Greisberg JK, Prince DE, Sperber L. "First ray mobility is increased in patients with metatarsalgia." *FAI* 2010 Nov;31(11):954-8.
- Prince DE, Levine WN: Distal Biceps Tendon Injuries. AAOS Monograph Series, 2008.
- Celil Aydemir AB, Lee S, Kim DW, Gardner TR, Prince DE, Ahn JM, Lee FY: Nuclear Factor of Activated T Cell Mediates Proinflammatory Gene Expression in Response to Mechanotransduction. *Ann NY Acad Sci.* 2007 June 21.
- White AP, Maak TG, Prince DE, Vaccaro AR, Albert TJ, Hilibrand AS, Grauer JN: Osteogenic protein-1 induced gene expression: evaluation in a posterolateral spinal pseudarthrosis model. *Spine* 2006 Oct 15;31(22):2550-5.
- Prince DE, Katz DL, Paltiel AD: Evaluation of Critical Care Pathways in Postoperative Hip Fracture Patients. Yale Thesis. June 2004.

AWARDS

- Chief Resident 2008 – 2009
- AAOS Washington Health Policy Fellow 2008 – 2009
- OREF/JBJS Journal Club Grant 2008 – 2009
- OSRF Research Grant 2008
- Certificate of Recognition, NYPH – Columbia University 2007
- Dean's List, University of Notre Dame 1997 – 1999
- JJ Lordi / New York Athletic Club Scholarship 1998 - 1999
- James F. Andrews Scholarship 1999
- National Institutes of Health Pre-Doctoral Research Internship, National Institute of Diabetes & Digestive & Kidney Disease, Bethesda, MD 1998
- National Institutes of Health Pre-Doctoral Research Extramural Fellowship, University of Notre Dame, Notre Dame, IN 1997

RESEARCH EXPERIENCE

NYPH, Columbia University Medical Center, New York, NY

Researcher – Center for Orthopaedic Research **2006 – 2009**
P.I.: Francis Y. Lee, MD

Researcher – Center for Orthopaedic Research **2006 - 2009**
P.I.: Justin Greisberg, MD

Researcher – Department of Pediatric Orthopaedics **2005 - 2009**
P.I.: Michael Vitale, MD, MPH

Yale Medical School, New Haven, CT

Researcher – Department of Orthopaedics **2001 – 2004**
P.I.: Jonathan Grauer, MD

Researcher – Departments of Cardiothoracic Surgery and Endocrinology **2002 - 2003**
P.I.: Silvio Enzucchi, MD, Phil Goldberg, MD

Researcher – Departments of Orthopaedics and Public Policy **2003 – 2004**
P.I.: David Paltiel, MD

Georgetown University, Washington, DC

Research Assistant – Public Policy Institute **2000**
P.I.: Judy Feder, PhD, Ellen O'Brien, PhD

National Institute of Diabetes & Digestive & Kidney Disease, NIH, Bethesda, MD

Research Assistant **1999**
P.I.: John Hanover, PhD

University of Notre Dame, Notre Dame, IN

Research Assistant – Dept. of Biology, Section of Ecology **1998 – 1999**
P.I.: David Lodge, PhD

Research Assistant – Dept. of Chemistry, Section of Organic Chemistry **1997 - 1999**
P.I.: Paul Helquist, PhD

Research Assistant – Dept. of Chemistry, Section of Organic Chemistry **1998 - 1999**
P.I.: Richard Taylor, PhD

WORK EXPERIENCE

Yale School of Medicine

Teacher – Medical Spanish **2000 - 2001**

University of Notre Dame, Notre Dame, IN

Teaching Assistant – Biology 101, 102 **1998 - 1999**

Disabled Student Aide **1995 - 1998**

LANGUAGES

- English – native language
- Spanish – near-native speaker, writer, and reader